

GENEVA ZERO WASTE DAY CELEBRATION

BEATING WASTE POLLUTION

30 March 2023 | 13:00 - 14:30 CEST | Online (Webex)



UN HABITAT
FOR A BETTER URBAN FUTURE



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2.24 billion

tons of municipal solid waste annually, globally

- 55 per cent is managed in controlled facilities (World Bank, 2022)
- By 2050, this could rise to 3.88 billion tons per year



931 million

tons of food wasted each year

- 61 per cent of which came from households (UNEP, 2021)



11 million

tons of plastic currently entering the ocean annually

- Between 23 and 37 million metric tons of plastic will flow into the oceans every year by 2040 (UNEP, 2022)



50 million

tons of e-waste produced every year

- To reach 120 million tons per year by 2050 if current trends continue (PACE, UN E-Waste Coalition, 2019)
- Only 20% of this is formally recycled

**ENGLISH CAPTIONS CAN BE
ACTIVATED BY CLICKING ON THE
BOTTON ON THE LEFT-SIDE OF THE
BOTTOM BAR ON THE SCREEN**



Mute



Stop video



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SPEAKERS

By order of intervention.



H.E. Amb. Güven BEGEÇ 

Permanent Representative of Türkiye to the United Nations Office at Geneva and other international organizations in Switzerland



Graham ALABASTER 

Head, Geneva Office, UN-Habitat



Emre Cihan KAVLAK 

Environment Expert, Ministry of Environment, Urbanization and Climate Change, Türkiye



Warefta E MURSHED 

Member of the UN Environment Programme Major Group of Children & Youth



Dorinda PHILLIPS 

Geneva Manager, ZeroWaste Switzerland



Delphine BABIN-PELLIARD 

Senior Liaison Specialist Food Systems and Environment, FAO Liaison Office with the United Nations Office in Geneva | Moderator



Rolph PAYET 

Executive Secretary, Basel, Rotterdam and Stockholm Conventions



Jinhui LI 

Professor, School of Environment, Tsinghua University | Executive Director, Basel Convention Regional Centre for Asia and the Pacific



John Xavier CHWEYA 

Chairman, Kenya National Waste Pickers Welfare Association



Sarah BLOOMQUIST 

Director, Public Affairs, TOMRA Systems



Halida NASIC 

Human Rights Officer, Special Procedures Branch, UN Human Rights



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FAO Liaison Office with the United Nations Office in Geneva

Welcome | Geneva Zero Waste Celebration

- H.E. Amb. Güven BEGEÇ | Permanent Representative of Türkiye to the United Nations Office at Geneva and other international organizations in Switzerland

Beating Waste Pollution

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Q&A

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Geneva

Senior Liaison Specialist Food Systems and Environment,
FAO Liaison Office with the United Nations Office in
Geneva | Moderator

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Rolph PAYET

Executive Secretary, Basel, Rotterdam and Stockholm Conventions



Basel Convention approves E-waste Amendments at 2022 BRS COPs

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Graham ALABASTER

UN HABITAT
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Head, Geneva Office, UN-Habitat

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SIDE EVENT

ESTABLISHING ZERO-WASTE CITY: FROM CONCEPT TO PRACTICE

Organized by Basel Convention Regional Centre for Asia and the Pacific
15 June 2023 13:15 - 14:45



BASEL / ROTTERDAM / STOCKHOLM
CONVENTIONS



Jinhui LI

Professor, School of Environment, Tsinghua University |
Executive Director, Basel Convention Regional Centre for
Asia and the Pacific



WANG ZIYUAN

ZHAO HANA



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Emre Cihan KAVLAK

Environment Expert, Ministry of Environment,
Urbanization and Climate Change, Türkiye



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REPUBLIC OF TÜRKİYE MINISTRY OF ENVIRONMENT URBANIZATION AND CLIMATE CHANGE

Zero Waste Initiative in Türkiye

General Directorate of Environmental Management
Circular Economy and Waste Management Department



Zero Waste





Definition of Zero Waste



Zero waste is;



- an approach to resource and waste management based on circularity. It promotes sustainable **production and consumption habits** and encourages the efficient use of resources.
- a target defined as waste management philosophy that involves preventing the wastage, using the resources more efficient, reviewing the reasons of waste formation- preventing or minimizing it, **and collecting waste at source separately for a suitable recycling or recovering process.**





Definition of Zero Waste



- encourages a more circular approach to the way we use resources,
- pushes economies towards the target of sending no waste to landfill, incinerators, and ocean,
- designs and manages products and processes to reduce the volume and toxicity of waste and materials,
- **preserves and recovers all resources**, and not burn or bury them,





The **Need** for Zero Waste Projects



Zero waste entails avoiding wastefulness and advocating for the prevention, reduction, reuse and recycling of waste.

This can help achieve positive socio-economic outcomes including the development of social solidarity.



Zero Waste in Ministry Premises



Waste Temporary Storage Area

Mobile Civic Amenity Center



Zero Waste Management System & Implementations



Mobile Civic Amenity Centers



Civic Amenity Centers



Zero Waste Certification



<http://zerowaste.gov.tr/>



Zero Waste Guidelines



- Municipalities
- Organized structural zones and industrial organizations
- Airports and terminals
- Shopping centers, business firms and plazas
- Educational institutions and dormitories
- Health institutions
- Tourism facilities
- Rural settlements
- Public institutions
- Home and buildings
- Zero Waste Blue





Achievements Since 2017



27,2%
recovery rate

19 million
people educated

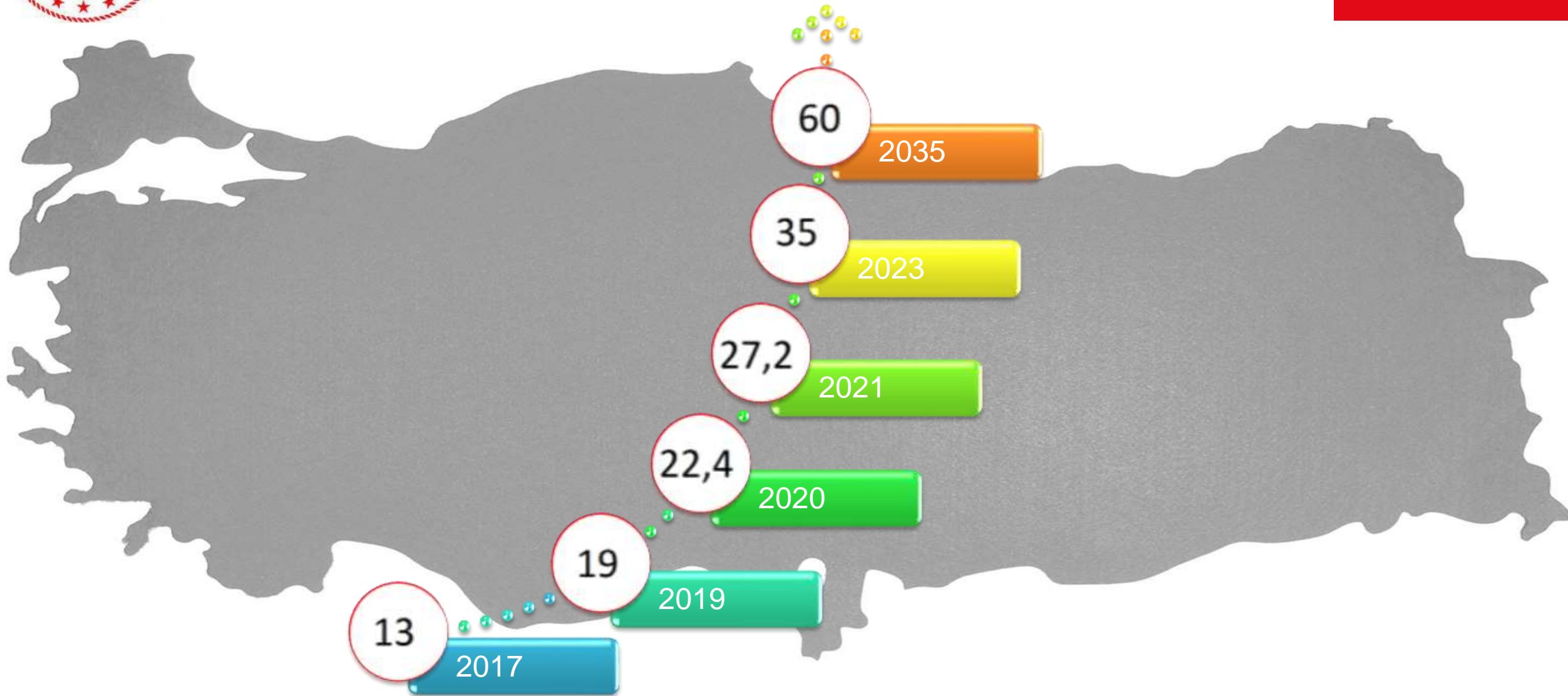
62,2 billion ₺
economic gain

117.893
buildings/campus &
96 municipalities
certificated

164.000
buildings/campus
have system
installation



Current Situation - Recycling Rates (%)





SDG Targets Related with our Zero Waste Initiative



Zero waste initiatives for a Circular Economy & Resource Efficiency with sustainable models



Creating local and national zero waste initiatives in cities



Resource Efficiency & Circular Innovation



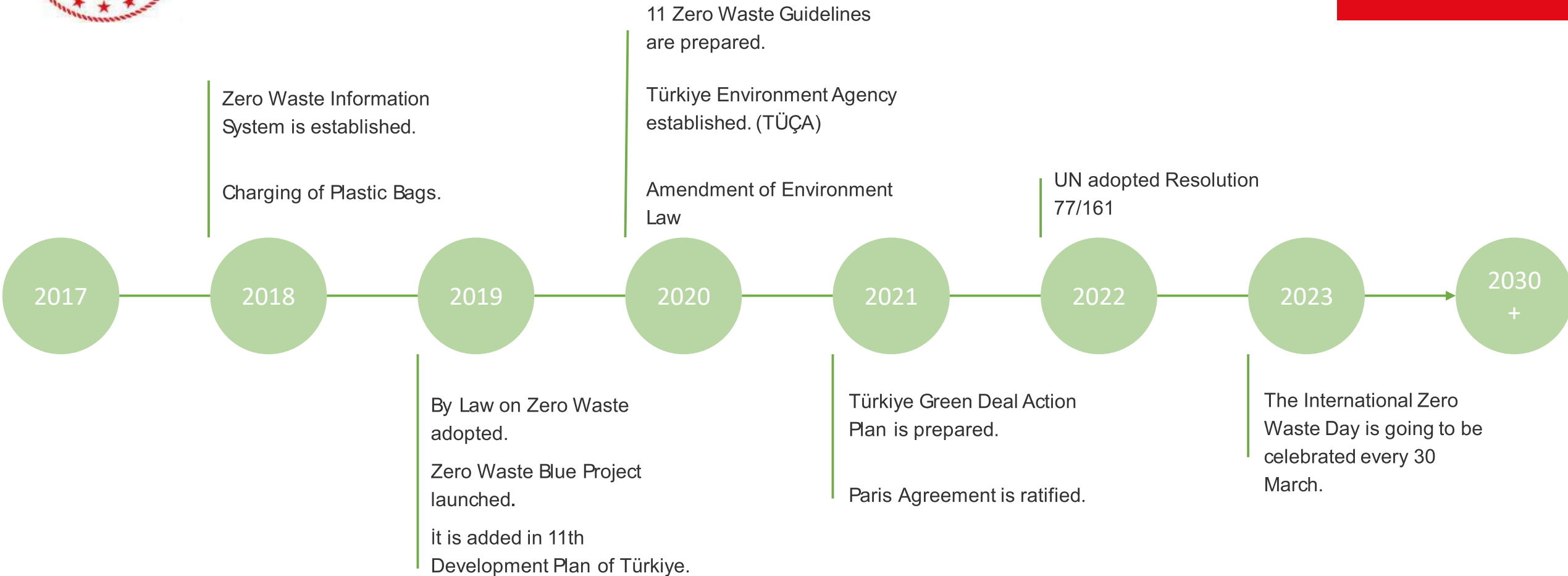
Consumption, Reuse, Recycling, Contributing to Climate Change Mitigation.



Taking measures against Marine Litter and Plastic Pollution.



Timeline of Zero Waste





UN General Assembly Unanimously Adopted Resolution 77/161 on 14th of December 2022.



Requests to set up an advisory board to promote local & national zero waste initiatives through dissemination of best practices and success stories.

Encourages member states, organizations of the UN system and other international and regional organizations



United Nations

Recommends the continuation of the discussion on zero-waste initiatives.

Declares March 30th as International Day of Zero Waste.



Awards



2018
“Zero Waste, Zero Hunger Award” by FAO



2021
“Sustainable Development Goals Action Award” by
UNDP



2021
“Waste Wise Cities Global Champion Award” by UN
Habitat



Awards



2022

"Parliamentary Assembly of the Mediterranean Award (PAW Awards)"



2022

"Climate and Development Leadership Award" by the World Bank



2022

Signed a declaration of goodwill with the UN to promote the "Zero Waste Project" around the world.



A Livable World with Circular Economy and Green Development

Thank you for your attention...

e-mail: sifiratik@csb.gov.tr

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John Xavier CHWEYA

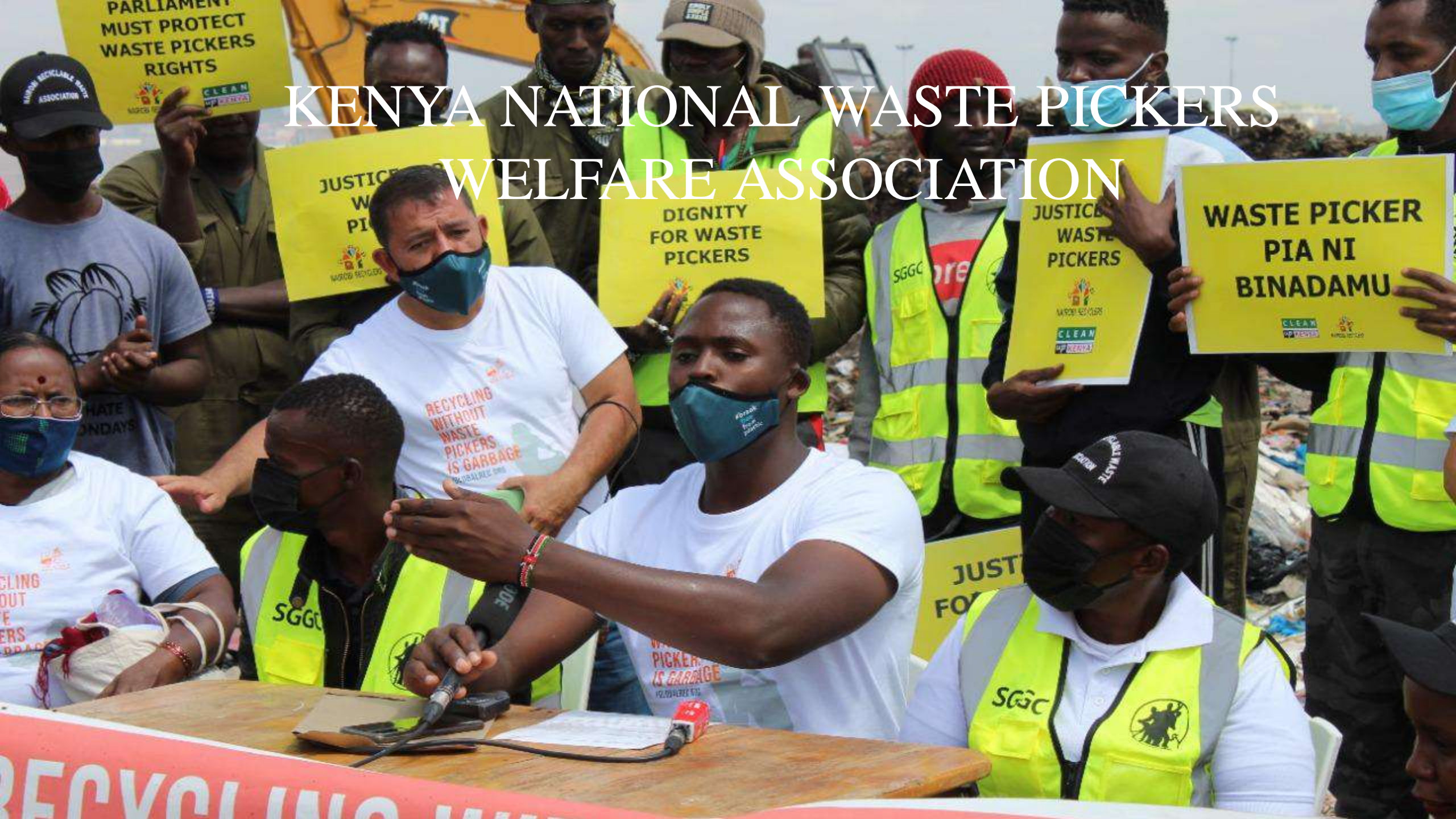


Chairman, Kenya National Waste Pickers
Welfare Association

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KENYA NATIONAL WASTE PICKERS WELFARE ASSOCIATION



FORMATION OF THE NATIONAL UMBRELLA

After multiple joint discussions, members from ten county associations agreed to form a national Umbrella that will be the central governing body of all the other WP associations within the boundaries of Kenya.



ACHIEVEMENTS

1. Organizing, uniting and initiating the discussion of the rights and welfare of over 26,000 waste pickers within kenya.



2. Initiating discussions with county governments to recognize and support waste pickers.



3. Fund raising for PPEs, through a facebook fund drive with friends We have managed to buy over 400 pairs of gumboots for our colleagues working at the dumpsite.











4.Regular community clean-ups



5. March and Press statement on the 1st of march 2023 on waste pickers demands at Dandora dump site.



5. Being part of the networking and lobbying work that took place during the UNEA 5.2 That lead to the recognition of waste picker in the resolution and also actively engaging in the INCs.







VISION

At the national level:

1. Waste pickers in Kenya to be at the heart of any waste management scheme
2. Waste Pickers to be provided with skills and training required to be an integral part of any foreseen new systems in place that tackles plastic management
3. Assurance of alternative livelihoods and decent employment
4. Waste Pickers to be a crucial player in the EPR scheme in Kenya

JUST TRANSITION

1. Establish a secure legal framework
2. Reduce and phase out toxic substances in plastic
3. Call on member states to institute Extended Producer Responsibility norms to partner with waste pickers organizations

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TOMRA

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A Holistic Approach to Resource Management

Beating Waste Pollution:
Geneva Zero Waste Day Celebration

Sarah Bloomquist, Director of Public Affairs

30 March 2023



5,000
employees
globally

12.2
billion NOK
in 2022

Publicly listed on Oslo Stock Exchange (OSEBX: TOM)



Collection



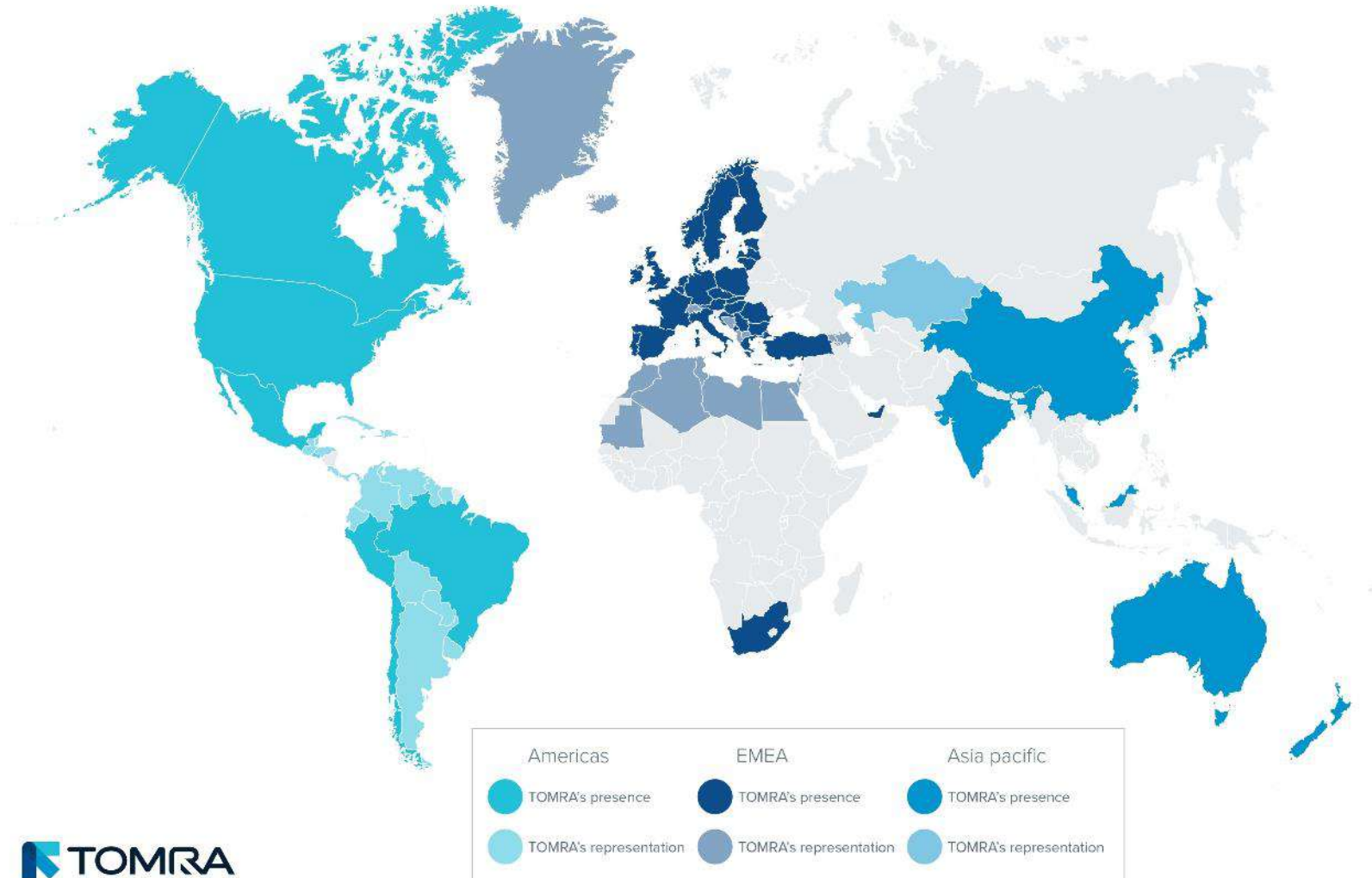
Recycling



Food



TOMRA's global presence



Installed base worldwide

Americas
~22,000

EMEA
~75,000

APAC
~8,000

Total ~105,000

*All figures are from 2022

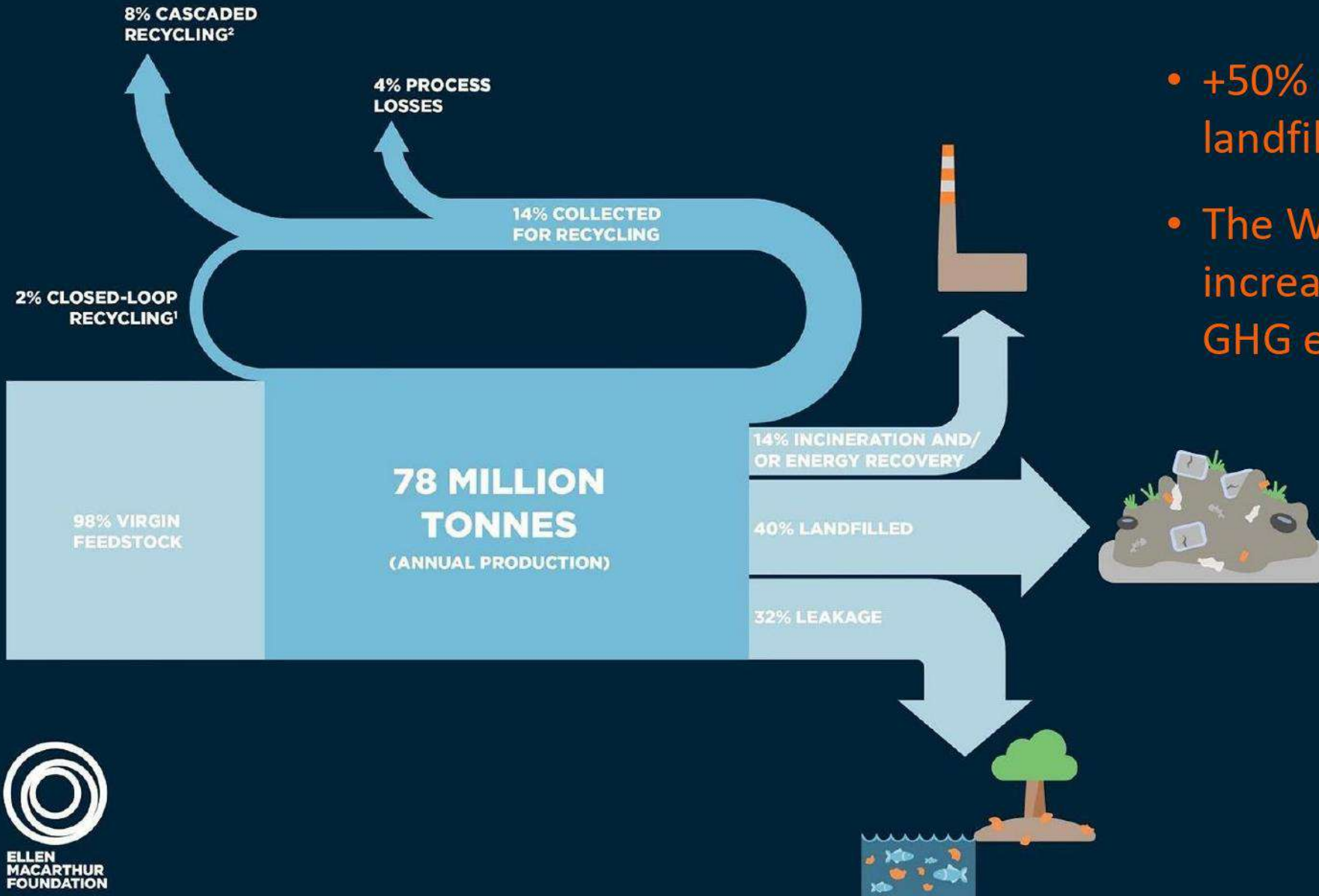


TOMRA Collection & Recycling Solutions



THE HOLISTIC RESOURCE SYSTEM (HRS)

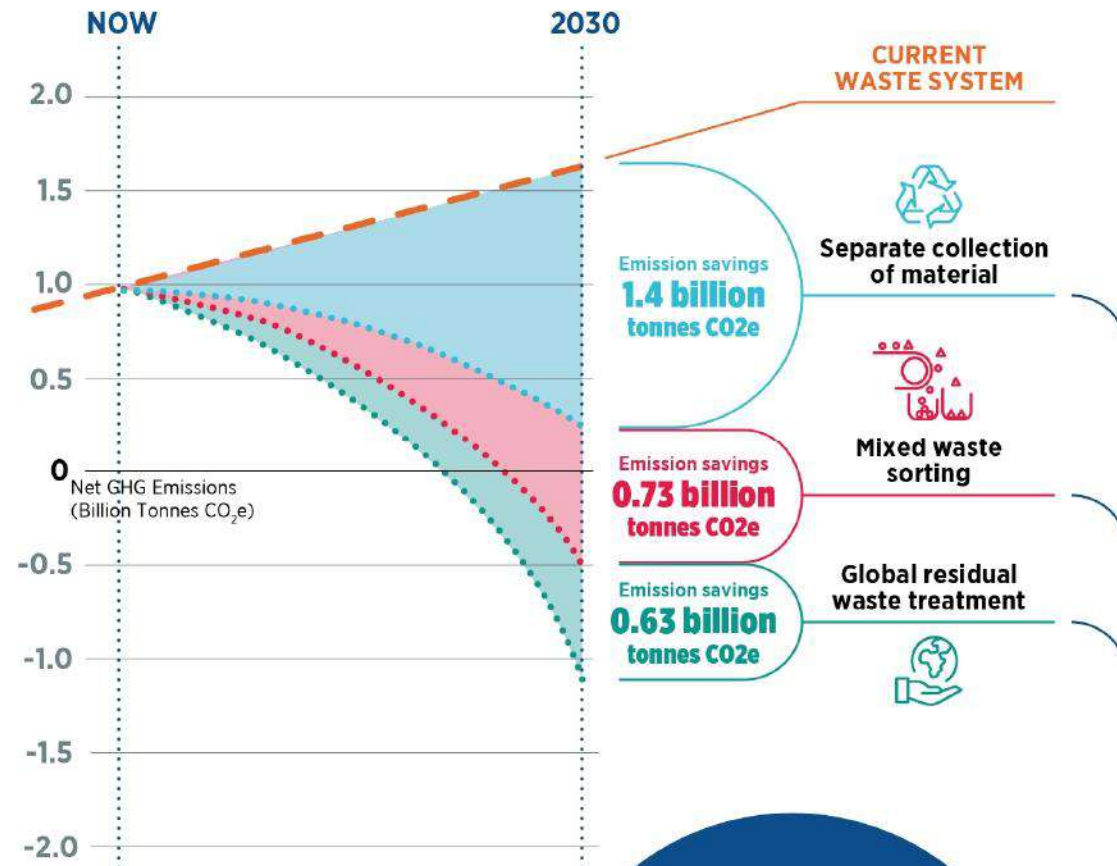
The Opportunity: Global Recycling and Disposal Flows



- +50% of packaging is lost to landfill and incineration.
- The World Bank projects a 30% increase in municipal waste GHG emissions for 2030.

KEY FINDINGS:

Global GHG emissions can be reduced by **2.76 billion tonnes CO₂e** per year – the equivalent of removing more than 600 million cars from the road per year – by significantly increasing collection and recycling, and improving resource management practices globally.



Global Emissions Savings
2.76 billion tonnes CO₂e

What systems are needed to reduce GHG emissions?

The 3 main components of the **Holistic Resource System (HRS)**



1) Deposit Return
System



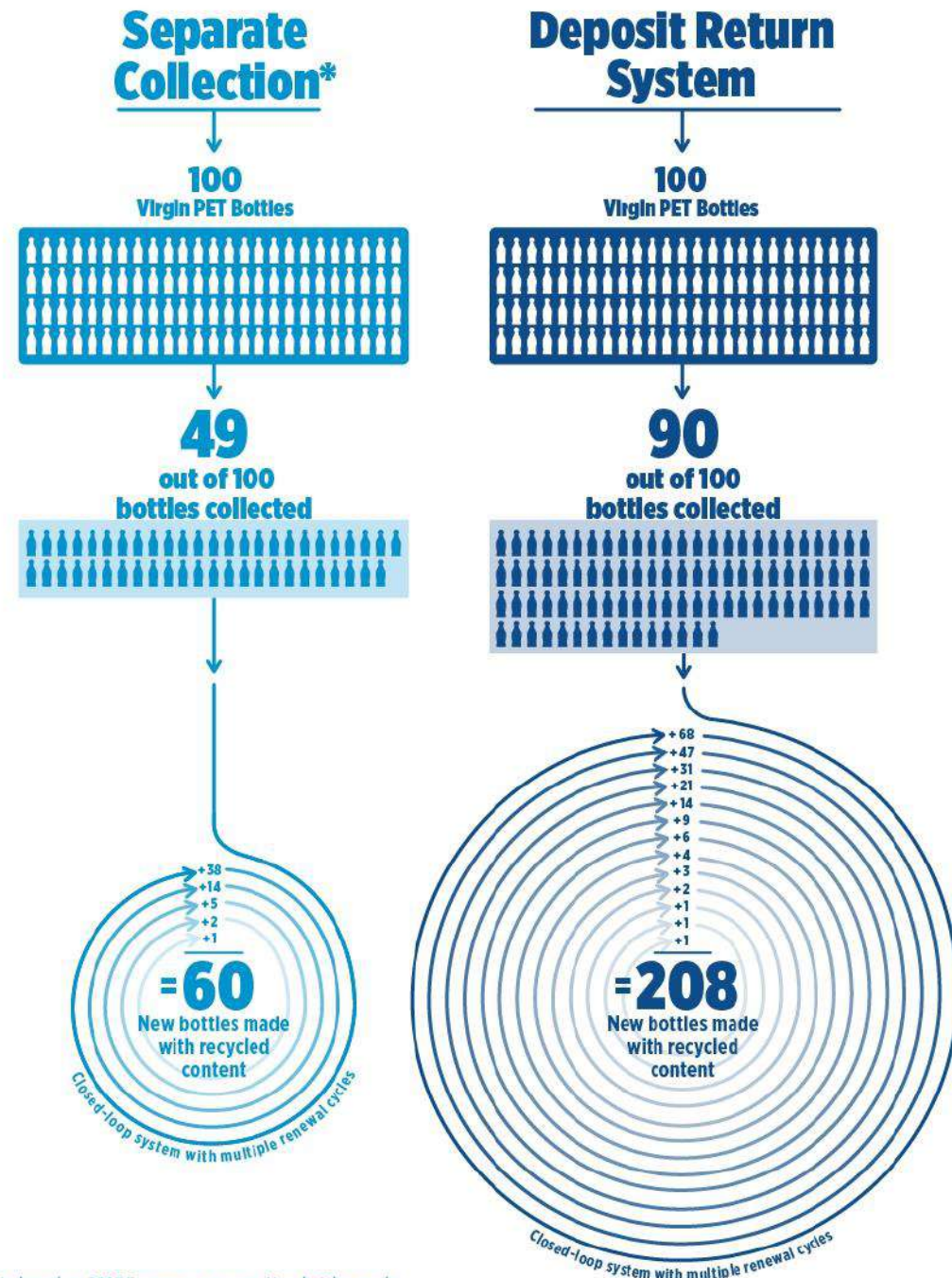
2) Separate Collection
Systems



3) Mixed Waste
Collection/Sorting

#1) Deposit Return Systems (DRS)

- Deliver up to **90%** collection rates and enable highest recycled content possible.
- Significant reduction in litter
- Drive circular economy
- Norway: 92% collection of PET bottles, providing the market with **80% recycled content**.



#2) Separate Collections

Source-separation of select materials and collected in dedicated streams.



ORGANIC



PAPER



TEXTILES



E-WASTE



GLASS



Separate collection of
PLASTICS
is not necessary



ORGANIC



PAPER



TEXTILES



E-WASTE



GLASS

#3) **Mixed Waste Sorting** is a recovery backstop to prevent the burying and burning of recyclable material



Capture lost value



Decrease CO_2
Footprint



Meet Targets

Mixed Waste Sorting: Ivar, Norway

*"We've invested in 22 NIR sorting machines in our waste sorting plant. As a result, our region has made a big step towards a **resource-efficient and climate-friendly circular economy.**"*

-Rudolf Meissner
Chief advisor, IVAR IKS

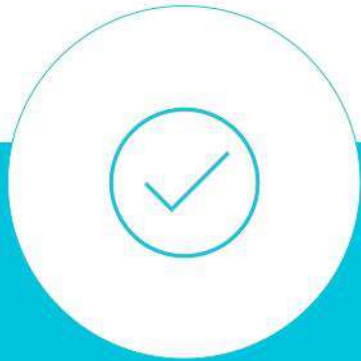


Advanced Mechanical Recycling (AMR) Demonstration Plant

TOMRA & Borealis, in collaboration with Zimmermann, partnered to generate material for brand owners and converters to qualify, validate, and prove fit-for-use in their applications.



Policy pillars of sustainable materials management



Effective extended producer responsibility (EPR) systems

to support plastics circularity, including deposit return systems (aka 'bottle bills') for beverage containers and EPR for curbside.



Comprehensive post-consumer recycled content (PCR) targets

to reduce dependency on virgin resources and create market certainty to trigger investment in infrastructure.



Financial instruments

such as a plastic tax, eco-modulated fees, and CO2 trading fees, to help to decouple prices of recycled and virgin plastics.

Why a Holistic Resource System?

Maximum recovery of all materials through implementation of deposit return systems, separate source collections and mixed waste sorting



**Increased
resource efficiency**



CO₂ footprint



Meet quotas



**Higher efficiency of
disposal capacity**

Policy Drivers (e.g.EU):

- 90% separate collection of plastic beverage containers
- 55% recycling of plastic packaging
- Recycled content targets
- 65% MSW utilization
- Incentivize sorting before incineration and landfill

United Nations Legally Binding Instrument on Plastic Pollution

TOMRA: 10 recommendations that
can be put in place right now

Enforce mandatory policies:

- to generate fair economic drivers for overall sustainability and pollution free plastic management,
- to drive collaboration and synergies across private and public sector

Thank you!

Sarah.Bloomquist@TOMRA.com



www.tomra.com

GENEVA ZERO WASTE DAY CELEBRATION

BEATING WASTE POLLUTION



30 March 2023 | 13:00 - 14:30 CEST

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AGENDA

Moderated by Delphine BABIN-PELLIARD | Senior Liaison Specialist Food Systems and Environment,
FAO Liaison Office with the United Nations Office in Geneva

Welcome | Geneva Zero Waste Celebration

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Q&A

Closing Remarks





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Dorinda PHILLIPS

ZEROWASTE
SWITZERLAND

Geneva Manager, ZeroWaste Switzerland

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ZeroWaste movement

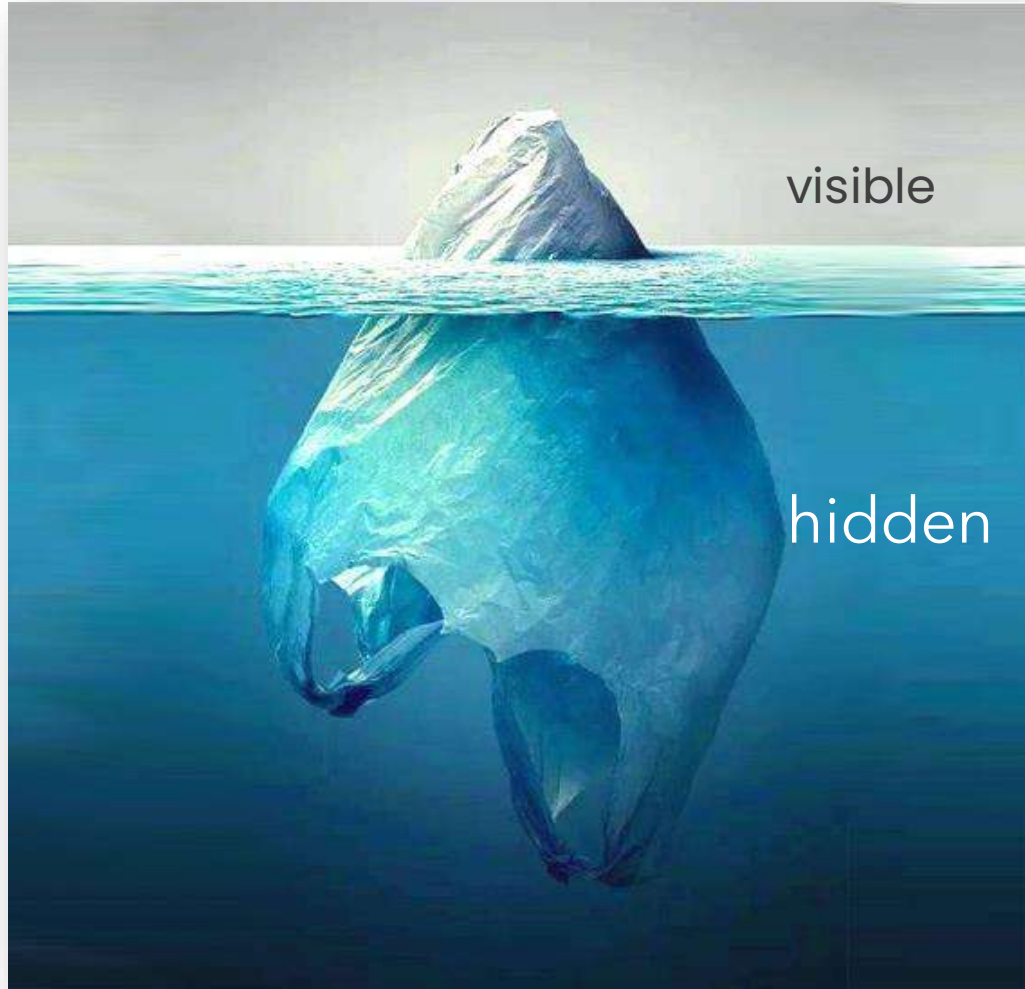
**Enabling conditions and concrete actions to
reduce waste and preserve natural resources**



www.zerowasteswitzerland.ch



Why reduce waste ?



Sources: OFEV



Amount of waste

698 kg / person / year
= 2 kg per day !!

Natural resources



CO2 emissions

14 tons /person /year



Zero Waste approach



A positive, step-by-step approach



- Reduce waste at the source, starts before recycling
- 1 Refuse and rethink**
Before buying or designing a product
 - 2 Reduce**
What is not needed and unnecessary packaging
 - 3 Reuse, repair and share**
Longer lasting products, reusable containers
 - 4 Rot and recycle**
Compost kitchen waste and avoid food waste.
Recycle what is not reusable or repairable
- Starts with visible waste but also food waste, energy waste, transport emissions etc

Zero Waste Switzerland / Zero Waste Europe



- Concrete solutions on the ground
- Events: Workshops, conferences, coaching programs, guides
- Projects: Zero Waste Cities / Schools / Shops

For municipalities, companies and schools



- Influencing EU policy : product redesign to waste disposal
- Zero Waste Cities program
- Mission Zero Academy

Member of GAIA, BFFP and RPa





Project: Zero Waste City Carouge

(Carouge Zéro Déchet)

A city in the canton of Geneva: 23,000 inhabitants

www.carougezerodechet.ch



Carouge Zero Waste City: 4 pillars

1) Individuals / households

- Conferences
- Workshops
- Family coaching
- ...

2) Key stakeholder involvement

- Schools
- Companies/shops
- Public administration
- ...

3) Multiplier strategy

- Festivals
- Projects:
- Mission Compost, etc.
- ...

4) Communication – Digital, campaigns, guides

Results – 4 levels



1) Excellent participation

- 6500 people et 175 activities
- 6 of 14 school establishments
- 80 shops – Sticker: Accept own containers
- 17 associations: Zero Waste habit of the month campaign
- 75'000 visitors to the website

2) Large reduction in waste – early adoptors

- | | |
|-------------|---------------------------------|
| - 30% – 90% | Individuals after the workshops |
| - 43% – 63% | Family coaching programs |
| - 50% – 90% | Festivals and school events |
| - 2t paper | Public administration |

Results – 4 levels



3) Marked reduction across the whole town

2022 vs 2018: – 8.4 % Households (12kg per person)
– 15 % Companies

4) Broader impact

- Local economy and cost savings
- Positive image/attraction of pilot programs
- Positive psychological impacts
- Environmental footprint



Project: My Zero Waste School (Mon Ecole Zéro Déchet)

Zero Waste School programme

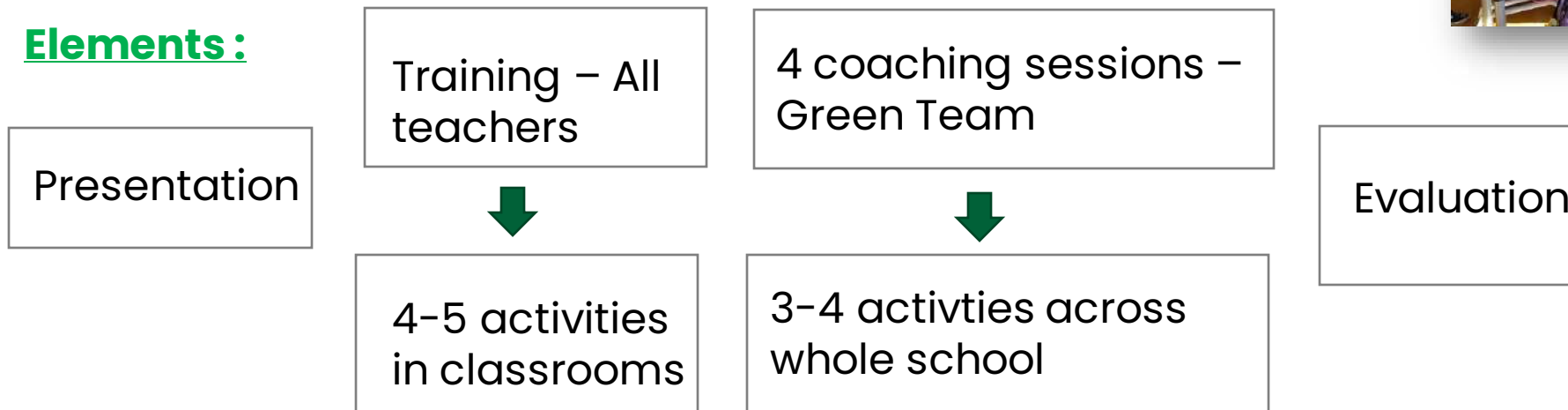
Description : The programme consists of 2 main elements :

- Accompanying the whole school during 9-12 months
- Provision of an educational tool-kit for teachers

Objectives:

- Teach primary school pupils Zero waste habits for life
- Engage the whole school in reducing waste and environmental footprint
- Reach the families and involve them in waste reduction

Elements:



Messages repeated multiple times → real behavior change

The Zero Waste Tool-kit

A educational tool kit for primary school teachers to enable them to run Zero Waste activities in their classes

The content meets the Regional Education Plan criteria and consists of :

- **20 ready-to-go activities** : concrete, interactive, structured around 4 action verbs : Discover – Experiment – Create – Communicate,
- **4 fact sheets** to give teachers the environmental knowledge they need
- **Material** : games, photos and communication material (habit lists and action guides) to involve the families.



ZERO WASTE SWITZERLAND

Activité en classe - libre accès
Découvrir : NFI - Vidéo : La légende du coïbon

Tableau d'actions Zéro Déchet

Les 5 verbes d'action	Exemple 1	Exemple 2	Exemple 3
Refuser	Je refuse les sacs en plastique ou en papier à usage unique en utilisant des sacs réutilisables en tissu pour acheter les fruits et légumes.	Je refuse les pailles en plastique ou en carton en disant : « Sans paille, s'il vous plaît » ou en ayant ma propre paille réutilisable toujours sur moi.	Je refuse les sacs en papier en disant : « S'il vous plaît, mettez-moi un croissant dans mon sac en tissu. »
Réduire	Je réduis la quantité de déchets à l'école liés aux goûters en apportant un goûter fait maison et en utilisant des contenants réutilisables.	Je réduis le gaspillage alimentaire en terminant toute mon assiette.	Je réduis les déchets générés par mon anniversaire en utilisant de la vaisselle réutilisable et/ou en demandant à mes copains un cadeau immatériel (billet de cinéma, sortie aérobranche, etc.) ou de seconde main.
Réutiliser	Je réutilise plusieurs fois ma gourde ou les bouteilles des bouteilles en plastique à usage unique.	Je réutilise les livres ou les jeux en les empruntant à la bibliothèque ou à la ludothèque.	Je réutilise des déchets (chutes de papier ou de tissu, bouts de ficelles, emballages carton, etc.) pour bricoler.
Recycler	Je recycle les déchets papier dans les conteneurs de mon immeuble ou de ma maison.	Je recycle le verre, le PET et l'alu en les apportant à l'écopoint de mon quartier.	Je recycle les habits usés en les apportant à un point de collecte.
Redonner à la terre (composter)	Je trie les déchets de cuisine avec un sac compostable.	Je trie les déchets de jardin.	Je fais mon propre compost.

Pour aller plus loin : sélection de vidéos

♦ Les courses Zéro Déchet : Outils aux préjugés - Zéro Carabistouille, 2017
https://www.youtube.com/watch?v=UdK_Dy8ag

♦ La Zéro Déchet et la vie sociale : Outils aux préjugés - Zéro Carabistouille, 2017
<https://www.youtube.com/watch?v=xwz0t2yguU>



« The best waste is the waste that is
never produced in the first place »

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THANK YOU!



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